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2 Integrating parallel file systems with object-based storage devices
Ananth Devulapalli, Dennis Dalessandro, Pete Wyckoff, Nawab Ali, P. Sada
November 2007 SC '07: Proceedings of the 2007 ACM/IEEE conference on S
Publisher: ACM
Full text available: Pdf (366.44 KB) Additional Information: full citation, abstract,

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As storage systems evolve, the block-based design of today's disks is b alternative, object-based storage devices (OSDs) offer a view where the keeps track of various attributes about data objects. ...

3 Toward a threat model for storage systems
Ragib Hasan, Suvda Myagmar, Adam J. Lee, William Yurcik
November 2005 StorageSS '05: Proceedings of the 2005 ACM workshop or survivability
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The growing number of storage security breaches as well as the need tc regulations is driving the need for greater storage protection. However, comprehensive process to designing storage protection solutions. ...

Keywords: security, storage system, threat model

4 The Emergence of iSCSI
Jeffrey S. Goldner
June 2003 Queue , Volume 1 Issue 4
Publisher: ACM
Full text available: Html (34.12 KB) Additional Information: full citation, abstract,

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When most IT pros think of SCSI, images of fat cables with many fragile that's one manifestationthe oldest one. But modern SCSI, as defined by or SAM, really considers the cable and physical interconnections ...

Keywords: Cable, SAM, data, i/o, iSCSI, scsi

5 VirtualBox: bits and bytes masquerading as machines
Jon Watson
February 2008 Linux Journal , Volume 2008 Issue 166
Publisher: Specialized Systems Consultants, Inc.
Full text available: Html (19.66 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 478, Citation

Reconfiguring your existing system to do something new is painful. Usir

6 Kernel korner: Improving server performance
Chen Chen, David Griego
January 2002 Linux Journal , Volume 2002 Issue 93
Publisher: Specialized Systems Consultants, Inc.
Full text available: Html (13.31 KB) Additional Information: full citation, index terr

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7 RiceNIC: a reconfigurable network interface for experimental researc
Jeffrey Shafer, Scott Rixner
June 2007 ExpCS '07: Proceedings of the 2007 workshop on Experimenta
Publisher: ACM
Full text available: Pdf (321.36 KB) Additional Information: full citation, abstract,

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The evaluation of new network server architectures is usually performec simulator or a hardware prototype. Accurate simulation of the hardware network subsystem is challenging due to the interactions ...

Keywords: FPGA prototyping, ethernet, network interface cards

8 Kernel korner: ATA over ethernet: putting hard drives on the lan
Ed L. Cashin
June 2005 Linux Journal , Volume 2005 Issue 134
Publisher: Specialized Systems Consultants, Inc.
Full text available: Html (23.76 KB) Additional Information: full citation, abstract, index

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Citation (

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9 Exploiting task-level concurrency in a programmable network interfac
Hyong-youb Kim, Vijay S. Pai, Scott Rixner
June 2003 PPoPP '03: Proceedings of the ninth ACM SIGPLAN symposium

parallel programming
Publisher: ACM
Full text available: Pdf (191.35 KB) Additional Information: full citation, abstract,

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Programmable network interfaces provide the potential to extend the fu
but lead to instruction processing overheads when compared to applicat
This paper aims to offset those performance disadvantages ...

Keywords: ethernet, firmware, parallel programming, programmable n

Also published in:
October 2003 SIGPLAN Notices Volume 38 Issue 10

10 A nine year study of file system and storage benchmarking
Avishay Traeger, Erez Zadok, Nikolai Joukov, Charles P. Wright
May 2008 Transactions on Storage (TOS) , Volume 4 Issue 2
Publisher: ACM
Full text available: Pdf (609.71 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 117, Downloads (12 Months): 841, Citati

Benchmarking is critical when evaluating performance, but is especially
systems. Complex interactions between I/O devices, caches, kernel dae
result in behavior that is rather difficult to analyze. ...

Keywords: Benchmarks, file systems, storage systems

11 miNI: reducing network interface memory requirements with dynamic
Reza Azimi, Angelos Bilas
June 2003 ICS '03: Proceedings of the 17th annual international conferen
Publisher: ACM
Full text available: Pdf (289.75 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 25, Citation (

Recent work in low-latency, high-bandwidth communication systems ha
Network Interface Controllers (NICs) and communication abstractions th
the NIC to applications virtual memory to avoid ...

Keywords: parallel architectures, system area networks

12 Spinach: a liberty-based simulator for programmable network interfa
Paul Willmann, Michael Brogioli, Vijay S. Pai
July 2004 LCTES '04: Proceedings of the 2004 ACM SIGPLAN/SIGBED co
compilers, and tools for embedded systems
Publisher: ACM
Full text available: Pdf (336.99 KB) Additional Information: full citation, abstract,

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This paper presents Spinach, a new simulator toolset specifically design network interface architectures. Spinach models both system componer programmable environments (e.g., ALUs, control and data paths, ...

Keywords: embedded systems, programmable network interfaces, sim

Also published in:
July 2004 SIGPLAN Notices Volume 39 Issue 7

13 Optimization and bottleneck analysis of network block I/O in commoc
Manolis Marazakis, Vassilis Papaefstathiou, Angelos Bilas
June 2007 ICS '07: Proceedings of the 21st annual international conferen
Publisher: ACM
Full text available: Pdf (442.79 KB) Additional Information: full citation, abstract,

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Building commodity networked storage systems is an important architec hosting a moderate number of consumer-grade disks and interconnecte network are an attractive option for improving storage system ...

Keywords: I/O performance optimization, RDMA, block-level I/O, comr

14 High-performance ethernet-based communications for future multi-c
Michael Schlansker, Nagabhushan Chitlur, Erwin Oertli, Paul M. Stillwell, Jr
Richard J. Carter, Jayaram Mudigonda, Nathan Binkert, Norman P. Jouppi
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Data centers and HPC clusters often incorporate specialized networking requirements. However, Ethernet's low cost and high performance are c fabrics toward standard Ethernet. Although Ethernet's ...

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Aaron Falk, Ted Faber, Joseph Bannister, Andrew Chien, Robert Grossman,
November 2003 Communications of the ACM , Volume 46 Issue 11
Publisher: ACM
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The Explicit Control Protocol and other new congestion-control systems performance over a range of network infrastructure, including extremel links. What then is next for TCP and other established ...

16 Storage Systems: Not Just a Bunch of Disks Anymore
June 2003 Queue , Volume 1 Issue 4
Publisher: ACM
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Bibliometrics: Downloads (6 Weeks): 196, Downloads (12 Months): 330, Citati

17 MemX: supporting large memory workloads in Xen virtual machines

Michael R. Hines, Kartik Gopalan

November 2007 VTDC '07: Proceedings of the 3rd international workshop o distributed computing

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Modern grid computing and enterprise applications increasingly execute machines (VMs) to partition hardware resources and improve utilization tend to have memory and I/O intensive workloads, ...

18 An efficient system-on-a-chip design methodology for networking ap

Valentina Salapura, Christos J. Georgiou, Indira Nair

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This paper presents a System-on-a-Chip design methodology that uses building block for the development of chips for networking applications. is a self-contained macro that functions as an accelerator ...

Keywords: network processor, system-on-a-chip

19 FAB: building distributed enterprise disk arrays from commodity com

Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence

December 2004 ASPLOS-XI: Proceedings of the 11th international conferer programming languages and operating systems

Publisher: ACM

Full text available: Pdf (671.67 KB) Additional Information: full citation, abstract,

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This paper describes the design, implementation, and evaluation of a Fe distributed disk array that provides the reliability of traditional enterpris better scalability. FAB is built from a ...

Keywords: consensus, disk array, erasure coding, replication, storage,

Also published in:

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December 2004 SIGOPS Operating Systems Review Volume 38 Issue 5

December 2004 SIGARCH Computer Architecture News Volume 32 Issue 5

20

New products
Linux Journal Staff
May 2007 Linux Journal , Volume 2007 Issue 157
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